

FORM PTO-1449 (REV.7-80)	OCT 09 2005 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 210121.515D1	APPLICATION NO. 10/762,058
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		APPLICANTS Ajay Bhatia et al.	
		FILING DATE January 15, 2004	GROUP ART UNIT 1642

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/PB/	AA	4,118,469	10/03/78	Caldwell et al.	424	1	
/PB/	AB	4,497,899	02/05/85	Armstrong et al.	436	510	
/PB/	AC	5,166,053	11/24/92	Huguenel et al.	435	7.36	
/PB/	AD	5,318,892	06/07/94	Watanabe et al.	435	7.36	
/PB/	AE	5,725,863	03/10/98	Daniels et al.	424	263.1	
/PB/	AF	5,869,608	02/09/99	Caldwell et al.	530	350	
/PB/	AG	6,166,177	12/26/00	Probst et al.	530	300	
/PB/	AH	6,432,916	08/13/02	Probst et al.	514	2	
/PB/	AI	6,448,234	09/10/02	Fling	514	44	
	AJ	6,565,856	05/20/03	Skeiky et al.	424	263.1	

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		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION
					YES NO
/PB/	AK	EP 348725 A2	01/03/90	EPO	
/PB/	AL	EP 784059 A1	07/16/97	EPO	
/PB/	AM	WO 94/06827	03/31/94	WIPO	
/PB/	AN	WO 97/06263	02/20/97	WIPO	
/PB/	AO	WO 98/02546	01/22/98	WIPO	

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

/PB/	AP	Allen and Stephens, "An intermolecular mechanism of T cell help for the production of antibodies to the bacterial pathogen, <i>Chlamydia trachomatis</i> ," <i>European Journal of Immunology</i> 23: 1169-1172, 1993.
/PB/	AQ	Baehr et al., "Mapping antigenic domains expressed by chlamydia trachomatis major outer membrane protein genes," <i>Proc Natl Acad Sci</i> 85(1):4000-4004, June 1, 1988.
/PB/	AR	Brunham et al., "Chlamydia trachomatis antigens: role in immunity and pathogenesis," <i>Infectious Agents and Disease</i> 3(5):218-233, October 1994.

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/PB/	BB	WO 98/10789	03/19/98	WIPO		
/PB/	BC	WO 99/17741	04/15/99	WIPO		
/PB/	BD	WO 99/27105	06/03/99	WIPO		
/PB/	BE	WO 99/28475	06/10/99	WIPO		
/PB/	BF	WO 99/51748	10/14/99	WIPO		
/PB/	BG	WO 00/34483	06/15/00	WIPO		
/PB/	BH	WO 01/40474	06/07/01	WIPO		
	BI					

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/PB/	BJ	Burgess, W.H. et al., "Possible Dissociation of the Heparin-binding and Mitogenic Activities of Heparin-binding (Acidic Fibroblast) Growth Factor-1 from Its Receptor-binding Activities by Site-directed Mutagenesis of a Single Lysine Residue," <i>The Journal of Cell Biology</i> 111: 2129-2138, 1990.
/PB/	BK	Chakrabarti et al., "Vaccinia virus expression vector: coexpression of β-galactosidase provides visual screening of recombinant virus plaques," <i>Molecular and Cellular Biology</i> 5(12):3403-3409, December 1985.
/PB/	BL	Conlan, J.W. et al., "Isolation of recombinant fragments of the major outer-membrane protein of <i>Chlamydia trachomatis</i> : their potential as subunit vaccines," <i>Journal of General Microbiology</i> 136: 2013-2020, 1990.
/PB/	BM	Earl et al., "Biological and immunological properties of human immunodeficiency virus type 1 envelope glycoprotein: analysis of proteins and truncations and deletions expressed by recombinant vaccinia viruses," <i>Journal of Virology</i> 65(1):31-41, January 1991.
/PB/	BN	GenBank Accession No. AE001273; "Genome sequence of an obligate intracellular pathogen of humans: <i>Chlamydia trachomatis</i> ," June 2, 2004.
/PB/	BO	Genbank Database, Accession No. AE001316, June 1, 2004

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OTHER ART (<i>Including Author, Title, Date, Pertinent Pages, Etc.</i>)							
/PB/ CC		Genbank Database, Accession No. AE001320, June 1, 2004					
/PB/ CD		GenBank Database, Accession No. AE001323, "Genome sequence of an obligate intracellular pathogen of humans: Chlamydia trachomatis," June 1, 2004.					
/PB/ CE		GenBank Database, Accession No. AE001324, "Genome sequence of an obligate intracellular pathogen of humans: Chlamydia trachomatis," June 1, 2004.					
/PB/ CF		Genbank Database, Accession No. AE001326, June 1, 2004.					
/PB/ CG		GenBank Database, Accession No. AE001335, "Genome sequence of an obligate intracellular pathogen of humans: Chlamydia trachomatis," June 1, 2004.					
/PB/ CH		Genbank Database, Accession No. AE001361, June 1, 2004.					
/PB/ CI		GenBank Database, Accession No. E71500, "Genome sequence of an obligate intracellular pathogen of humans: Chlamydia trachomatis," November 3, 2000.					
/PB/ CJ		GenBank Database, Accession No. H71501, "Genome sequence of an obligate intracellular pathogen of humans: Chlamydia trachomatis," July 28, 2000.					
/PB/ CK		GenBank Database, Accession No. H71510, "Genome sequence of an obligate intracellular pathogen of humans: Chlamydia trachomatis," October 8, 1999.					
/PB/ CL		GenBank Database, Accession Number AAC68408, June 1, 2004.					
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		DOCUMENT NUMBER	DATE	COUNTRY			TRANSLATION YES NO
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OTHER ART (<i>Including Author, Title, Date, Pertinent Pages, Etc.</i>)							
/PB/	DC		GenBank Database, Accession Number AAF39070, March 26, 2003.				
/PB/	DD		GenBank Database, Accession Number AE001333, June 1, 2004.				
/PB/	DE		GenBank Database, Accession Number AE001353, October 30, 2000.				
/PB/	DF		GenBank Database, Accession Number AE002286, March 26, 2003.				
/PB/	DG		GenBank Database, Accession Number AE002343, March 26, 2003.				
/PB/	DH		GenBank Database, Accession No. H71468, October 8, 1999.				
/PB/	DI		EMBL Database, Accession Number O84466, June 1, 2003.				
/PB/	DJ		GenBank Database, Accession No. NC_000117, September 14, 2004.				
/PB/	DK		Grimwood, J. et al., "Expression of <i>Chlamydia pneumoniae</i> Polymorphic Membrane Protein Family Genes," <i>Infection and Immunity</i> 69(4): 2383-2389, April 2001.				
	DL		Gu et al., "Chlamydia trachomatis RNA polymerase α subunit: sequence and structural analysis," <i>J. Bacteriology</i> 177:2594-2601, May 1995.				
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	EA						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION
					YES NO
	EB				

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/PB/	EC	Hayes, L.J. et al., "Chlamydia trachomatis major outer membrane protein epitopes expressed as fusions with LamB in an attenuated <i>aroA</i> strain of <i>Salmonella typhimurium</i> ; their application as potential immunogens," <i>Journal of General Microbiology</i> 137: 1557-1564, 1991.
/PB/	ED	Hayes, L.J. et al., "The major outer-membrane proteins of <i>Chlamydia trachomatis</i> serovars A and B: intra-serovar amino acid changes do not alter specificities of serovar- and C subspecies-reactive antibody-binding domains," <i>Journal of General Microbiology</i> 136: 1559-1566, 1990.
/PB/	EE	Janeway et al. (eds.), <i>Immunobiology: The Immune System in Health and Disease</i> , Garland Pub., New York, NY, 1997, pgs. 7:6-7:10.
/PB/	EF	Jensen et al., "Infection of human and simian tissue cultures with rous sarcoma virus," <i>Proc. Natl. Acad. Sci. USA</i> 52:53-59, July 1964.
/PB/	EG	Jobling, M.G. et al., "Analysis of structure and function of the B subunit of cholera toxin by the use of site-directed mutagenesis," <i>Molecular Microbiology</i> 5(7): 1755-1767, 1991.
/PB/	EH	Kalman, S. et al., "Comparative genomes of <i>Chlamydia pneumoniae</i> and <i>C. trachomatis</i> ," <i>Nature Genetics</i> 21: 385-389, April 1999.
/PB/	EI	Kim, S.-K. et al., "Induction of HLA Class I-Restricted CD8 ⁺ CTLs Specific for the Major Outer Membrane Protein of <i>Chlamydia trachomatis</i> in Human Genital Tract Infections," <i>The Journal of Immunology</i> 162: 6855-6866, 1999.
/PB/	EJ	Knudsen, K. et al., "Identification of Two Novel Genes Encoding 97- to 99- Kilodalton Outer Membrane Proteins of <i>Chlamydia pneumoniae</i> ," <i>Infection and Immunity</i> 67(1): 375-383, January 1999.
/PB/	EK	Kuon, W. et al., "Recognition of Chlamydial Antigen By HLA-B27-Restricted Cytotoxic T Cells in HLA-B*2705 Transgenic CBA(H-2 ^k) Mice," <i>Arthritis & Rheumatism</i> 40(5): 945-954, May 1997.
/PB/	EL	Lalvani et al., "Rapid effector function in CD8 ⁺ memory T cells," <i>J. Exp. Med.</i> 186(6):859-865, September 15, 1997.

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					YES NO
	FB				

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

/PB/	FC	Lazar, E. et al., "Transforming Growth Factor α : Mutation of Aspartic Acid 47 and Leucine 48 Results in Different Biological Activities," <i>Molecular and Cellular Biology</i> 8(3): 1247-1252, March 1988.
/PB/	FD	Levinson and Jawetz, <i>Medical Microbiology & Immunology</i> , 3d ed., Appleton & Lange, 1994, pp.292-293.
/PB/	FE	Lu and Zhong, "Interleukin-12 Production IS Required for Chlamydial Antigen-Pulsed Dendritic Cells To Induce Protection against Live <i>Chlamydia trachomatis</i> Infection," <i>Infection and Immunity</i> 67(4): 1763-1769, April 1999.
/PB/	FF	Maclean, I.W. et al., "Characterization of <i>Chlamydia trachomatis</i> antigens with monoclonal and polyclonal antibodies," <i>Can. J. Microbiol.</i> 34: 141-147, 1988.
/PB/	FG	Murdin, A.D. et al., "A Poliovirus Hybrid Expressing a Neutralization Epitope from the Major Outer Membrane Protein of <i>Chlamydia trachomatis</i> Is Highly Immunogenic," <i>Infection and Immunity</i> 61(10): 4406-4414, October 1993.
/PB/	FH	Mygind, P.H. et al., "Membrane proteins PmpG and PmpH are major constituents of <i>Chlamydia trachomatis</i> L2 outer membrane complex," <i>FEMS Microbiol. Lett.</i> 186(2): 163-169, May 15, 2000.
/PB/	FI	Pal, S. et al., "Immunization with an Acellular Vaccine Consisting of the Outer Membrane Complex of <i>Chlamydia trachomatis</i> Induces Protection against a Genital Challenge," <i>Infection and Immunity</i> 65(8): 3361-3369, August 1997.
/PB/	FJ	Pawlakowska and Deptula, "Adherence and ingesting capacity of peripheral blood granulocytes in rabbits immunized with various antigens of <i>Chlamydia sp.</i> ," <i>Central European Journal of Immunology</i> 24: 293-298, 1999.
/PB/	FK	Peterson, E.M. et al., "The Effect of Orientation Within a Chimeric Peptide on the Immunogenicity of <i>Chlamydia trachomatis</i> Epitopes," <i>Molecular Immunology</i> 33(4/5): 335-339, 1996.
/PB/	FL	Rank et al., "Immunization against Chlamydial Genital Infection in Guinea Pigs with UV-Inactivated and Viable Chlamydiae Administered by Different Routes," <i>Infection and Immunity</i> , 58(8):2599-2605, August 1990.

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					YES NO
	GB				

OTHER ART (*Including Author, Title, Date, Pertinent Pages, Etc.*)

/PB/	GC	Read et al., "Genome sequences of <i>Chlamydia trachomatis</i> MoPn and <i>Chlamydia pneumoniae</i> AR39," <i>Nucleic Acids Research</i> 28(6):1397-1406, 2000.
/PB/	GD	Rudinger, J., "Characteristics of the amino acids as components of a peptide hormone sequence," in <i>Peptide Hormones</i> , Parsons, J.A. (ed.), University Park Press, Baltimore, MD, June 1976, pgs. 1-5.
/PB/	GE	Sanderson et al., "Identification of a CD4 ⁺ T Cell-stimulating Antigen of Pathogenic Bacteria by Expression Cloning," <i>J. Exp. Med.</i> 182(6):1751-1757, 1995.
/PB/	GF	Scudiero et al., "Evaluation of a soluble tetrazolium/formazan assay for cell growth and drug sensitivity in culture using human and other tumor cell lines," <i>Cancer Research</i> 48:4827-4833, September 1, 1988.
/PB/	GG	Shirai, M. et al., "Comparison of whole genome sequences of <i>Chlamydia pneumoniae</i> J138 from Japan and CWL029 from USA," <i>Nucleic Acid Research</i> 28(12): 2311-2314, 2000.
/PB/	GH	Stagg, A.J., "Vaccines against <i>Chlamydia</i> : approaches and progress," <i>Molecular Medicine Today</i> 4(4): 166-173, April 1998.
/PB/	GI	Starnbach et al., "Protective cytotoxic T lymphocytes are induced during murine infection with <i>Chlamydia trachomatis</i> ," <i>The Journal of Immunology</i> 153(11):5183-5189, December 1, 1994.
/PB/	GJ	Stephens et al., "Genome Sequence of an Obligate Intracellular Pathogen of Humans: <i>Chlamydia trachomatis</i> ," <i>Science</i> 282:754-759, October 23, 1998.
/PB/	GK	Su and Caldwell, "Immunogenicity of a synthetic oligopeptide corresponding to antigenically common T-helper and B-cell neutralizing epitopes of the major outer membrane protein of <i>Chlamydia trachomatis</i> ," <i>Vaccine</i> 11(11): 1159-1166, 1993.
/PB/	GL	Su, H. et al., "Protective efficacy of a parenterally administered MOMP-derived synthetic oligopeptide vaccine in a murine model of <i>Chlamydia trachomatis</i> genital tract infection: serum neutralizing IgG antibodies do not protect against chlamydial genital tract infection," <i>Vaccine</i> 13(11): 1023-1032, 1995.

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	HB						
OTHER ART (<i>Including Author, Title, Date, Pertinent Pages, Etc.</i>)							
/PB/	HC	Unanue, E.R., "Chemical Features of Peptide Selection by the Class II Histocompatibility Molecules," <i>American Journal of Pathology</i> 154(3): 651-664, March 1999.					
/PB/	HD	Webb et al., "Molecular cloning of a novel protein antigen of Leishmania major that elicits a potent immune response in experimental murine leishmaniasis," <i>The Journal of Immunology</i> 157:5034-5041, 1996					
/PB/	HE	Yasuda, K. et al., "Serine 6 of Lck Tyrosine Kinase: A Critical Site for Lck Myristoylation, Membrane Localization, and Function in T Lymphocytes," <i>The Journal of Immunology</i> 165: 3226-3231, 2000.					
/PB/	HF	Zhang, D. et al., "DNA vaccination with the major outer-membrane protein gene induces acquired immunity to <i>Chlamydia trachomatis</i> (mouse pneumonitis) infection," <i>J. Infect. Dis.</i> 176(4): 1035-1040, October 1997.					
/PB/	HG	Zhong, G. et al., "Immunogenicity Evaluation of a Lipidic Amino Acid-Based Synthetic Peptide Vaccine for <i>Chlamydia trachomatis</i> ," <i>The Journal of Immunology</i> 151(7): 3728-3736, October 1, 1993.					
/PB/	HH	Zhong, G. et al., "Mapping epitopes of neutralizing monoclonal antibodies using phage random peptide libraries," <i>Journal of Industrial Microbiology & Biotechnology</i> 19: 71-76, 1997.					
/PB/	HI	Zhong, G. et al., "Conformational Mimicry of a Chlamydial Neutralization Epitope on Filamentous Phage," <i>Journal of Biological Chemistry</i> 269(39): 24183-24188, September 30, 1994.					
	HJ						
	HK						
	HL						
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